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| APPLICATION NO.   | FILING DATE     | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.     | CONFIRMATION NO. |  |
|---|-----------------|----------------------|-------------------------|------------------|--|
| 10/693,737  | 10/27/2003      | Kai-Cheng Chang      | 935 <u>0</u> .0001      | 2406             |  |
| 22852 7   | 7590 04/19/2005 |                      | EXAMINER                |                  |  |
| FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER<br>LLP<br>901 NEW YORK AVENUE, NW<br>WASHINGTON, DC 20001-4413 |                 |                      | CHIESA, RICHARD L       |                  |  |
|   |                 |                      | ART UNIT                | PAPER NUMBER     |  |
|   |                 |                      | 1724                    |                  |  |
|   |                 |                      | DATE MAILED: 04/19/2005 | 5                |  |

Please find below and/or attached an Office communication concerning this application or proceeding.

|   |  |  |   | 125  |  |  |  |  |
|---|--|--|---|------|--|--|--|--|
|   |  | Application No.  | Applicant(s)  |      |  |  |  |  |
| Office Action Summary   |  | 10/693,737   | CHANG ET AL.  |      |  |  |  |  |
|   |  | Examiner   | Art Unit  |      |  |  |  |  |
|   |  | Richard L. Chiesa  | 1724  |      |  |  |  |  |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address<br>Period for Reply   |  |  |   |      |  |  |  |  |
| THE MAII  - Extensions after SIX (6  - If the perio  - If NO perio  - Failure to r  Any reply r   | ENED STATUTORY PERIOD FOR REPLING DATE OF THIS COMMUNICATION of time may be available under the provisions of 37 CFR of time may be available under the provisions of 37 CFR of time may be available under the provisions of 37 CFR of time may be available under the provisions of 37 CFR of the provisions of 37 CFR 1.704(b). | 1.  1.136(a). In no event, however, may a  ply within the statutory minimum of th  d will apply and will expire SIX (6) MO  ute, cause the application to become A | reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this con NBANDONED (35 U.S.C. § 133). |      |  |  |  |  |
| Status  |  |  |   |      |  |  |  |  |
| 1) Res  | sponsive to communication(s) filed on  |  |   |      |  |  |  |  |
| ·   | This action is <b>FINAL</b> . 2b) This action is non-final.  |  |   |      |  |  |  |  |
| <i>'</i> —  | <u>_</u>   |  |   |      |  |  |  |  |
| •   | closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  |  |   |      |  |  |  |  |
| Disposition (   | ·  | ax parto quayro, 1000 on   |   |      |  |  |  |  |
| · _   |  |  |   |      |  |  |  |  |
|   | Claim(s) <u>1-19</u> is/are pending in the application.  |  |   |      |  |  |  |  |
| _   | 4a) Of the above claim(s) is/are withdrawn from consideration.   |  |   |      |  |  |  |  |
|   | 5)⊠ Claim(s) <u>1-19</u> is/are allowed.   |  |   |      |  |  |  |  |
| · <u> </u>  | 6) Claim(s) is/are rejected.   |  |   |      |  |  |  |  |
|   | 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.  |  |   |      |  |  |  |  |
|   |  | or election requirement.   |   |      |  |  |  |  |
| Application F   | Papers   |  |   |      |  |  |  |  |
| 9)⊠ The   | 9) The specification is objected to by the Examiner.   |  |   |      |  |  |  |  |
| 10)⊠ The  | 10)⊠ The drawing(s) filed on <u>27 October 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.   |  |   |      |  |  |  |  |
| Арр   | Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  |  |   |      |  |  |  |  |
| Rep   | Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).   |  |   |      |  |  |  |  |
| 11) The   | 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.   |  |   |      |  |  |  |  |
| Priority unde   | er 35 U.S.C. § 119   |  |   |      |  |  |  |  |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). |  |  |   |      |  |  |  |  |
| * See t   | * See the attached detailed Office action for a list of the certified copies not received.   |  |   |      |  |  |  |  |
|   |  |  | 9   |      |  |  |  |  |
| ·   |  |  |   |      |  |  |  |  |
| Attachment(s)   | References Cited (PTO-892)   | 4) Intention   | Summary (PTO-413)   |      |  |  |  |  |
| Paper No(s)/Mail Date   |  |  |   |      |  |  |  |  |
|   | n Disclosure Statement(s) (PTO-1449 or PTO/SB/0-   | 8) 5)  | Informal Patent Application (PTO-   | 152) |  |  |  |  |
| raper ivo(s   | s)/Mail Date   |  | <u></u>   |      |  |  |  |  |

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#### **DETAILED ACTION**

### **Priority**

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## **Drawings**

2. The drawings filed on October 27, 2003 are accepted by the examiner.

# Specification

- 3. The abstract of the disclosure is objected to because it contains the legal expression "comprising" in the first line. Apparently, this word should be changed to --including--. Correction is required. See MPEP § 608.01(b).
- 4. Applicants are reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means", "comprising", and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

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The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns,"

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"The disclosure defined by this invention," "The disclosure describes," etc.

Allowable Subject Matter

5. Claims 1-19 are allowed.

6. As allowable subject matter has been indicated, applicants' reply must either comply with

all formal requirements or specifically traverse each requirement not complied with. See 37

CFR 1.111(b) and MPEP § 707.07(a).

The following is a statement of reasons for the indication of allowable subject matter: 7.

The prior art fails to teach or fairly suggest the recited adjustable eddy electrostatic precipitator

with the recited main body, air guiding plate of helical shape, electrode array, adjustable opening

having an adjustable aperture, and precipitating device connected with a bias high voltage.

Conclusion

8. The prior art made of record is considered pertinent to applicants' disclosure. These

references have been cited as art of interest to show other electrostatic precipitators with air flow

manipulation.

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9. This application is in condition for allowance except for the following formal matters:

(A) The abstract must be corrected as explained above in paragraphs 3 and 4. (B) The phrase "shaped like a truncated cone" bridging lines 2 and 3 of claim 3 should apparently be changed to --of truncated cone shape-- (C) The phrase "being shaped like a helix of" (claim 3, bridging lines 3 and 4; claim 4, bridging lines 3 and 4) should apparently be changed to --of helical shape with--- (D) The phrase "shaped like a cylinder" (claim 4, bridging lines 2 and 3; claim 13, line 2) should apparently be changed to --of cylinder shape--- (E) The phrase "shaped like an obtuse cone" bridging the last two lines of claim 12 should apparently be changed to --of an obtuse cone shape--- The above-suggested changes in claim language are made to improve the clarity and precision of the claims (MPEP section 2173.02).

Prosecution on the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard L. Chiesa whose telephone number is (571) 272-1154.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane S. Smith, can be reached at (571) 272-1166.

Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center 1700 receptionist whose telephone number is (571) 272-0987.

Facsimile correspondence must be transmitted through (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Richard L. Chiesa April 18, 2005

> RICHARD L. CHIESA PRIMARY EXAMINER ART UNIT 1724

april 18, 2005

Richard L. Chiesa

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